

Title (en)
Generalized reference decoder for image or video processing

Title (de)
Generalisierter Bilddecodierer und -videodecodierer

Title (fr)
Décodeur généralisé de référence pour le décodage d'image et de vidéo

Publication
EP 1298938 B1 20170215 (EN)

Application
EP 02019056 A 20020827

Priority
US 95573101 A 20010919

Abstract (en)
[origin: EP1298938A2] A method and system including an improved generalized reference decoder that operates according to any number of sets of rate and buffer parameters for a given bit stream. Each set characterizes a leaky bucket model and contains three parameters representing the transmission bit rate, buffer size, and initial decoder buffer fullness. An encoder provides at least two sets of these parameters, whereby the decoder selects one or interpolates between them to operate at any desired peak bit rate, buffer size or delay. The generalized reference decoder may select the smallest buffer size and corresponding delay that decodes the bit stream without buffer underflow or overflow, or alternatively may select and operate at the minimum required peak transmission rate, or something between both. In practice, the buffer size, delay and/or the peak transmission rate can be reduced by significant factors, and/or the signal-to-noise ratio (SNR) can be increased. <IMAGE>

IPC 8 full level
H04N 7/26 (2006.01); **H04N 19/44** (2014.01); **G06T 1/00** (2006.01); **H04L 13/08** (2006.01); **H04L 29/08** (2006.01); **H04N 7/173** (2011.01); **H04N 7/50** (2006.01); **H04N 19/00** (2014.01); **H04N 19/149** (2014.01); **H04N 19/46** (2014.01); **H04N 21/438** (2011.01)

CPC (source: EP KR US)
G06T 1/00 (2013.01 - KR); **H04N 19/115** (2014.11 - EP US); **H04N 19/149** (2014.11 - EP US); **H04N 19/152** (2014.11 - EP US); **H04N 19/172** (2014.11 - EP US); **H04N 19/44** (2014.11 - EP US); **H04N 19/61** (2014.11 - EP US)

Citation (examination)
EP 0515101 A2 19921125 - AMERICAN TELEPHONE & TELEGRAPH [US]

Cited by
KR100947162B1; CN102572411A; EP2403262A3; EP2403263A3; EP2403264A3; EP2457167A4; US9648385B2; WO2010114685A1; US9521354B2; US9769505B2; EP1501309A4; US8315313B2; US8401088B2; US8537902B2; US8571115B2; US8767837B2; US10477270B2; US10595081B2; US10602220B2; US10602219B2; US10602218B2; US10609445B2; US10659839B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
EP 1298938 A2 20030402; EP 1298938 A3 20030924; EP 1298938 B1 20170215; CN 100461858 C 20090211; CN 1426235 A 20030625; CN 1848964 A 20061018; CN 1848964 B 20111109; DE 20222026 U1 20111228; EP 1746844 A2 20070124; EP 1746844 A3 20070418; EP 1746844 B1 20160330; EP 1753248 A2 20070214; EP 1753248 A3 20070418; EP 1753248 B1 20160330; ES 2570190 T3 20160517; ES 2570604 T3 20160519; ES 2623635 T3 20170711; HK 1053034 B 20180119; JP 2003179665 A 20030627; JP 2007329953 A 20071220; JP 4199973 B2 20081224; JP 4489794 B2 20100623; KR 100947162 B1 20100312; KR 100999311 B1 20101208; KR 20030025186 A 20030328; KR 20070097375 A 20071004; TW 574831 B 20040201; US 2003053416 A1 20030320; US 2006198446 A1 20060907; US 7593466 B2 20090922; US 7646816 B2 20100112

DOCDB simple family (application)
EP 02019056 A 20020827; CN 02143213 A 20020919; CN 200610079930 A 20020919; DE 20222026 U 20020827; EP 06006864 A 20020827; EP 06022341 A 20020827; ES 02019056 T 20020827; ES 06006864 T 20020827; ES 06022341 T 20020827; HK 03105291 A 20030722; JP 2002273882 A 20020919; JP 2007191483 A 20070723; KR 20020056115 A 20020916; KR 20070079066 A 20070807; TW 91121528 A 20020919; US 41899506 A 20060504; US 95573101 A 20010919